

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

5 Listing of Claims:

Claim 1 (currently amended): A liquid crystal display device comprising:

a liquid crystal display panel;

10 a light source for providing light beams to irradiate the liquid crystal display panel; and

an optical sheet positioned between the liquid crystal display panel and the light source and having a first surface facing the light source, the first surface having a plurality of prisms for totally reflecting portions of ambient light beams that have passed through the liquid crystal display panel to irradiate
15 the liquid crystal display panel and to increase a brightness of the liquid crystal display device by the portions of ambient light beams, each of the prisms comprising a first plane and a second plane, an included angle between the first plane and the second plane being in the range between 80° and 130°.

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Claim 2 (original): The liquid crystal display device of claim 1 wherein each of the prisms is a symmetric structure or an asymmetric structure.

Claim 3 (canceled).

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Claim 4 (previously presented): The liquid crystal display device of claim 1 wherein the optical sheet comprises a second surface facing the liquid crystal display panel.

Claim 5 (original): The liquid crystal display device of claim 4 wherein a is an included angle between a normal of the second surface and the first plane of each prism, and $a = 90^\circ - \sin^{-1}(n_1 \sin(b)/n_2) - c$, wherein b is an incident angle of the ambient
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light beams when the ambient light beams are incident on the second surface of the optical sheet, $c = \sin^{-1}(n_1/n_2)$, n_1 is a refractive index of an ambient environment, and n_2 is a refractive index of the optical sheet.

- 5 Claim 6 (original): The liquid crystal display device of claim 5 wherein b is less than or equal to 60° .

Claim 7 (original): The liquid crystal display device of claim 5 wherein d is an included angle between the normal of the second surface and the second plane of each prism, and $d = 45^\circ + [\sin^{-1}(n_1 \cdot \sin(f)/n_2) - a + c]/2$, wherein f is a refraction angle of the ambient light beams when the ambient light beams leave the second surface of the optical sheet.

- 15 Claim 8 (original): The liquid crystal display device of claim 7 wherein f is less than or equal to 60° .

Claim 9 (original): The liquid crystal display device of claim 1 wherein the optical sheet is a diffusing sheet.

- 20 Claim 10 (original): The liquid crystal display device of claim 9 wherein the optical sheet comprises polycarbonate (PC), polyethylene terephthalate (PET) or polymethyl methacrylate (PMMA).

- 25 Claim 11 (original): The liquid crystal display device of claim 1 wherein the optical sheet is a polarizer.

- Claim 12 (currently amended): A liquid crystal display device comprising:
a liquid crystal display panel; and
an optical sheet having a first surface facing the liquid crystal display panel
30 and a second surface opposed to the first surface, the second surface comprising a plurality of prisms for totally reflecting portions of ambient light beams that have

passed through the liquid crystal display panel to irradiate the liquid crystal display panel and to increase a brightness of the liquid crystal display device by the portions of ambient light beams, each of the prisms comprising a first plane and a second plane, an included angle between the first plane and the second plane being in the range between 80° and 130° .

Claim 13 (canceled).

Claim 14 (previously presented): The liquid crystal display device of claim 12 wherein each of the prisms is a symmetric structure or an asymmetric structure.

Claim 15 (canceled).

Claim 16 (previously presented): The liquid crystal display device of claim 12 wherein a is an included angle between a normal of the first surface and the first plane of each prism, and $a = 90^{\circ} - \sin^{-1}(n_1 \sin(b)/n_2) - c$, wherein b is an incident angle of the ambient light beams when the ambient light beams are incident on the first surface, $c = \sin^{-1}(n_1/n_2)$, n_1 is a refractive index of an ambient environment, and n_2 is a refractive index of the optical sheet.

Claim 17 (original): The liquid crystal display device of claim 16 wherein b is less than or equal to 60° .

Claim 18 (original): liquid crystal display device of claim 16 wherein d is an included angle between the normal of the first surface and the second plane of each prism, and $d = 45^{\circ} + [\sin^{-1}(n_1 \sin(f)/n_2) - a + c]/2$, wherein f is a refraction angle of the ambient light beams when the ambient light beams leave the first surface of the optical sheet.

Claim 19 (original): The liquid crystal display device of claim 18 wherein f is less than or equal to 60° .

Claim 20 (original): The liquid crystal display device of claim 12 wherein the optical sheet is a diffusing sheet.

5 Claim 21 (original): The liquid crystal display device of claim 20 wherein the optical sheet comprises polycarbonate, polyethylene terephthalate or polymethyl methacrylate.

10 Claim 22 (original): The liquid crystal display device of claim 12 wherein the optical sheet is a polarizer.

15 Claim 23 (original): The liquid crystal display device of claim 12 further comprising a light source for providing light beams to irradiate the liquid crystal display panel, and the optical sheet being positioned between the liquid crystal display panel and the light source.